



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Patent of

Patent No. 5,413,774

Atty. Ref.: 1201-55

Granted: May 9, 1995

For: LONG-LASTING AQUEOUS DISPERSIONS OR
SUSPENSIONS OF PRESSURE RESISTANT GAS
FILLED MICROVESICLES AND METHODS FOR THE
PREPARATION THEREOF

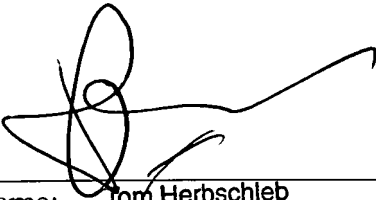
* * * * *

Honorable Commissioner of
Patents and Trademarks
Washington, DC 20231

Sir:

CONSENT OF ASSIGNEE AND OFFER TO SURRENDER

I, Tom Herbschleb, am authorized to act on behalf of Bracco International B.V., of Amsterdam, The Netherlands, assignee of the entire right, title and interest of U.S. Patent No 5,413,774 by virtue of assignments recorded on April 8, 1994 at reel 6933, frame 0824 and September 1, 1998 at reel 9429, frame 0562, and hereby consent to the filing of an application for reissue of said U.S. Patent and hereby offer to surrender the original U.S. Patent No. 5,413,774 when required to do so in these reissue proceedings.


Name: Tom Herbschleb
Title: Proxy Holder

Date: 26 NOV. 2003

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RECORDATION FORM COVER SHEET

PATENTS ONLY

Our Ref: 1201-1

Commissioner of Patents and Trademarks
Box Assignment, Washington, D.C. 20231

\$ 400-581 D

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Sintetica S.A.

Additional name/s of conveying party/ies attached? [no]

3. Nature of conveyance:

[X] Assignment [] Merger
[] Security Assignment [] Change of Name
[] Other

Execution Date: 28 March 1994

2. Name and address of receiving party(ies):
Name: BRACCO INTERNATIONAL B.V.

Internal Address:
Street Address: 7, De Boelelaan

City: Amsterdam
State/Country: The Netherlands
Zip: 1083 HJ

Additional name/s & address/es attached? [] Yes [X] No

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4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s):
(1) 08/128,540 (4) 07/855,032
(2) 08/033,345 (5) 07/861,889
(3) 07/824,311 (6) 07/975,533

B. Patent No(s):
(1) 5,271,928
(2)
(3)

Additional numbers attached [X] Yes [] No

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94 APR 22 PM 12:30
ASSIGNMENT BRANCH

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Leonard C. Mitchard
Internal Address:
Street Address: Nixon & Vanderhye P.C.
1100 North Glebe Road
8th Floor
City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 10

7. Total fee (37 CFR 3.41) \$ 400.00
[X] Enclosed
[X] Authorized to be charged to deposit account #14-1140
(Attach duplicate copy of this page if paying by deposit account)

8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this form) to our Account No. 14-1140. A duplicate copy of this sheet is attached.

090 BA 04/20/94 08128540 DO NOT USE THIS SPACE 400.00 CK 56

9. Statements and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Leonard C. Mitchard
Name of Person Signing
Reg. N.

Signature
Date: April 8, 1994

91798267

Total number of pages including cover sheet, attachments, and document: [1]

Form PTO-1595
1-31-92

U.S. Department of Commerce
Patent and Trademark Office

RECORDATION FORM COVER SHEET

PATENTS ONLY

Our Ref: 1201-1

Commissioner of Patents and Trademarks
Box Assignment, Washington, D.C. 20231

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Additional name/s of conveying party/ies attached? []

3. Nature of conveyance:

- [X] Assignment [] Merger
[] Security Assignment [] Change of Name
[] Other _____

Execution Date: _____

2. Name and address of receiving party(ies):

Name: _____

Internal Address: _____

Street Address: _____

City: _____

State/Country: _____

Zip: _____

Additional name/s & address/es attached? [] Yes [X] No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No(s).

(7) 07/991,237 (9) 08/134,671

(8) 08/096,414

B. Patent No(s).

(1)

(2)

(3)

Additional numbers attached [] Yes [X] No

REF 6933 FRAM 825

ASSIGNMENT

WHEREAS, SINTETICA S.A. a Swiss company having a place of business at 6850 Mendrisio, Switzerland, is the owner, by assignment, of the United States patent applications shown on the attached list identified as Schedule A.

WHEREAS, BRACCO INTERNATIONAL B.V., 7, De Boelelaan, 1083 HJ Amsterdam, The Netherlands but also having offices at 1, Riva Caccia, 6900 Lugano, is desirous of acquiring from SINTETICA S.A. the entire right, title and interest in, to and under the aforesaid patents and the inventions therein described and claimed.

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, SINTETICA S.A. does hereby sell, assign and transfer unto said BRACCO INTERNATIONAL B.V., its successors and assigns, said inventions, applications and any Letters Patent and reissue of said Letters Patent, the same to be held and enjoyed by BRACCO INTERNATIONAL B.V. for its own use and enjoyment and the use and enjoyment of its successors and assigns, and other legal representatives, to the end of the term for which Letters Patent is granted or reissued, as fully and entirely as the same would have been held and enjoyed by SINTETICA S.A. if this assignment and sale had not been made, together with the right to sue for and collect the same for BRACCO INTERNATIONAL B.V.'s own use and enjoyment.

SINTETICA S.A.

Date: 28.01.1994

By: *Diana Bracco*

No. 2896 / Lugano 28 marzo 1994 Dr. Diana Bracco

The undersigned Notary Public certifies that he is acquainted with Dr. Diana Bracco and that the forgoing is her true signature; more over, that he knows that SINTETICA S.A. is a company legally organized in accordance with the laws of Switzerland and that Dr. Diana Bracco, who signs in its name and stead is its officer and has full authorisation to sign.

Date: Lugano, 28 marzo 1994

By: *Pierpaolo Caldelari*
Notary Public



REEL 6933 FRAME 826

SCHEDULE A

1a) US Pat No. 5,271,928 - issued December 21, 1993 - Stable Microbubbles Suspensions Injectable into Living Organisms - (Our case: S001/US/EchoII).

1b) US Serial No. 08/128,540 - filed September 29, 1993 which is a divisional of US Pat No. 5,271,928 (Our case: S001/US/EchoII/div).

2) US Serial No. 08/033,345 - filed March 18, 1993 which is continuation application of abandoned US Serial No. 07/695,343 - filed May 3, 1991 - Polymeric Gas- or Air- Filled Microballoons Usable as Suspensions in Liquid Carriers for Ultrasonic Echogaphy - (Case: S002/US/EchoI).

3) US Serial No. 07/824, 311 - filed January 23, 1992 - Compositions for Increasing the Image Contrast in Diagnostic Investigations of Digestive Tract of Patients - (Case: S003/US/Bioca).

4) US Serial No. 07/855, 032 - filed May 6, 1992 - Method for the Preparation of Stable Suspensions of Hollow Gas-filled Microspheres Suitable for Ultrasonic Echography - (Case: S004/US/Echofood).

5) US Serial No. 07/861, 889 - filed June 22, 1992 - Method for Making Liposomes of Enhanced Entrapping Capacity Toward Foreign Substances to be Encapsulated - (Case: S005/US/Steril lip).

6) US Serial No. 07/975,533 - filed February 18, 1993 - A Method of Making Conjugate Moieties Capable of Chelating Paramagnetic Metals and Designed for Coupling with a Factor Responsive to Specific Cellular Marker Sites - (Case: S006/US/Palacios).

7) US Serial No. 07/991, 237 - filed December 16, 1992 - Long Lasting Aqueous Dispersions or Suspensions of Pressure-resistant Gas-filled Microvesicles and Methods for the Preparation Thereof (Case: S007/US/Echogas).

8) US Serial No. 08/096, 414 - filed July 26, 1993 - Particles for NMR Imaging and Method of Manufacture - (Case: S008/US/Stealth mag).

REEL 6933 FRAME 827

Schedule A
Page 2

9) US Serial No. 08/134,671 - filed October 12, 1993 - Stable Microbubble
Suspensions as Enhancement Agents for Ultrasound Echography- (Case:
S009/US/EchoIIb).

REEL 6933 FRAME 828

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PATENT & TRADEMARK OFFICE

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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JANUARY 07, 1999

PTAS

NIXON & VANDERHYE P.C.
ARTHUR R. CRAWFORD
1100 NORTH GLEBE ROAD
8TH FLOOR
ARLINGTON, VA 22201

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/01/1998

REEL/FRAME: 9429/0178
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
BUSSAT, PHILIPPE

DOC DATE: 08/10/1998

ASSIGNOR:
HYBL, EVA

DOC DATE: 08/18/1998

ASSIGNOR:
BICHON, DANIEL

DOC DATE: 08/25/1998

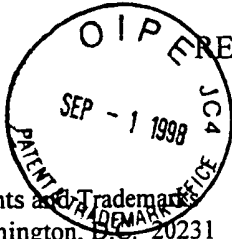
ASSIGNEE:
BRACCO INTERNATIONAL B.V.
STRAWINSLYLAAN 3051
1077 ZX
AMSTERDAM, NETHERLANDS

SERIAL NUMBER: 09115963
PATENT NUMBER:

FILING DATE: 07/15/1998
ISSUE DATE:

9429/0178 PAGE 2

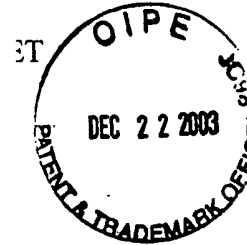
TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



09-09-1998



100824456



Our Ref.: 1201-

Commissioner of Patents and Trademarks
Box Assignment, Washington, D.C. 20231

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Philippe BUSSAT
Eva HYBL
Daniel BICHON

MKB
9/1/98

2. Name and address of receiving party(ies):

Name: Bracco International B.V.

Internal Address: _____

Street Address: Strawinslyaan 3051
1077 ZX

City: Amsterdam

State/Country: The Netherlands

Zip: _____

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Assignment ☐ Change of Name
☐ Other _____

Execution Date: August 10, 18, 25, 1998

Additional name/s & address/es attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No(s).

- (1) 09/115,963
(2) _____
(3) _____

B. Patent No(s).

- (1) _____
(2) _____
(3) _____

Additional numbers attached ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Arthur R. Crawford

Internal Address: _____

Street Address: Nixon & Vanderhye P.C.
1100 North Glebe Road
8th Floor

City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account #14-1140

8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.

09/08/1998 JSH/27 00000035 141140 09115963

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01 EC:581 40.00 CH

9. Statements and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

for Arthur R. Crawford
Name of Person Signing
Reg. No. 25,327

B. R. Crawford 91,352
Signature

September 1, 1998
Date

Total number of pages including original cover sheet, attachments, and document: [3]

1201-55

ASSIGNMENT OF PATENT APPLICATION

(Philippe BUSSAT
(Eva HYBL
Daniel BICHON

(Inventors)

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee)

(Bracco International B.V.

(Address)

(of Strawinslylaan 3051, 1077 ZX, , Amsterdam, The Netherlands

(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(Other

Countries)

(in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as

(Title)

LONG-LASTING AQUEOUS DISPERSIONS OR SUSPENSIONS OF PRESSURE-RESISTANT GAS-FILLED MICROVESICLES AND METHODS FOR THE PREPARATION THEREOF (Case No. 1201-55)

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed (on or has already filed in

(U.S. appln. Serial No. 09/115,963, filed on July 15, 1998

(The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date	<u>10.08.98</u>	Signature of inventor	(<u>Philippe Bural</u>
Date	<u>18.08.98</u>	Signature of inventor	(<u>Daniel Richon</u>
Date	<u>25.08.98</u>	Signature of inventor	(<u>Eus Olyel</u>
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____

Witnessed by: N. Town

Date 10/08/98

Witnessed by: F. Laurent

Date 18/08/98

Witnessed by: F. Saut

Date 25 August 1998

Patent Assignment Abstract of Title

NOTE: Results display only for issued patents and published applications.
For pending or abandoned applications please consult USPTO staff.

Total Assignments: 4

Patent #: 5413774 Issue Dt: 05/09/1995 Application #: 07991237 Filing Dt: 12/16/1992

Inventors: MICHEL SCHNEIDER, FENG YAN, PASCAL GRENIER, NADINE GARCEL, JEROME PUGINIER et al

Title: LONG-LASTING AQUEOUS DISPERSIONS OR SUSPENSIONS OF PRESSURE-RESISTANT GAS-FILLED MICROVESICLES AND METHODS FOR THE PREPARATION THEREOF

Assignment: 1

Reel/Frame: 006527/0572

Recorded: 03/17/1993

Pages: 2

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: SCHNEIDER, MICHEL

Exec Dt: 12/14/1992

FENG, YAN

Exec Dt: 12/14/1992

GARCEL, NADINE LEGAL HEIR OF PASCAL GRENIER
(DECEASED)

Exec Dt: 12/14/1992

PUGINIER, JEROME

Exec Dt: 12/14/1992

Assignee: SINETICA S.A.

7, ROUTE DE DRIZE CAROUGE
GENEVA, SWITZERLAND CH-12

Correspondent: NIXON & VANDERHYE P.C.

LEONARD C. MITCHARD
1100 NORTH GLEBE ROAD, 8TH FLOOR
ARLINGTON, VIRGINIA 22201

Assignment: 2

Reel/Frame: 006527/0574

Recorded: 03/17/1993

Pages: 2

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: BARRAU, MARIE-BERNADETTE

Exec Dt: 12/14/1992

Assignee: SINETICA S.A.

7, ROUTE DE DRIZE CAROUGE
GENEVA, SWITZERLAND CH-12

Correspondent: NIXON & VANDERHYE P.C.

LEONARD C. MITCHARD
1100 NORTH GLEBE ROAD, 8TH FLOOR
ARLINGTON, VIRGINIA 22201

Assignment: 3

Reel/Frame: 006933/0824

Recorded: 04/08/1994

Pages: 5

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: SINETICA S.A.

Exec Dt: 03/28/1994

Assignee: BRACCO INTERNATIONAL B.V.

7, DE BOELELAAN AMSTERDAM, THE NETHERLANDS 1083 HJ

Correspondent: NIXON & VANDERHYE P.C.

LEONARD C. MITCHARD
1100 NORTH GLEBE ROAD
8TH FLOOR
ARLINGTON, VA 22201

Assignment: 4

Reel/Frame: 009429/0562

Rec rded: 09/01/1998

Pages: 3

C nveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assign rs: BUSSAT, PHILIPPE

Exec Dt: 08/10/1998

HYBL, EVA

Exec Dt: 08/18/1998

BICHON, DANIEL

Exec Dt: 08/25/1998

Assignee: BRACCO INTERNATIONAL, INC.

STRAWINSLYLAAN 3051

1077 ZX AMSTERDAM, NETHERLANDS

C rrespondent: NIXON & VANDERHYE P.C.

ARTHUR R. CRAWFORD

1100 NORTH GLEBE ROAD, 8TH FLOOR

ARLINGTON, VA 22201

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If you have any comments or questions concerning the data displayed, contact OPR / Assignments at 703-308-9723
Web interface last modified: Oct. 5, 2002